

ABSTRACT

A peritoneal dialyzer 1 including: a catheter capable of injecting and discharging peritoneal dialysate in an abdominal cavity of a patient; a peritoneal dialysate circuit 2 connected to the catheter; and a dialyzer 3 provided in the peritoneal dialysate circuit 2, the dialyzer 3 including a hemodialysate circuit 4 connected so that peritoneal dialysate passing through the inside can come into contact with a hemodialysate via a hollow fiber membrane, characterized in that means 5 capable of measuring an osmotic agent concentration in the peritoneal dialysate is provided on the peritoneal dialysate circuit 2 on the side of the end at which the catheter is connected with respect to the dialyzer 3, and a mechanism 6 for dehydrating the peritoneal dialysate according to the osmotic agent concentration measured by the aforementioned means 5 is provided on the hemodialysate circuit 4, and a method of peritoneal dialysis using the peritoneal dialyzer 1. It becomes possible to reduce time for dialysis treatment and the treatment cost by increasing the dialyzing efficiency and the dehydrating efficiency.